



AMKA

Self-supporting aerial bundled overhead cable 0,6/1 kV

APPLICATION

Cable intended for use in low-voltage overhead distribution networks in urban, suburban, and rural areas. Suitable for power supply to remote facilities and both temporary and permanent settlements. Designed for outdoor installation on poles; also applicable for above-ground connections to buildings. Mounting fittings compatible with EN 50483-1 and EN 50483-3 standards. Can be stored outdoors without shelter for up to 5 years without deterioration of electrical or mechanical properties, even when exposed to sunlight, moisture, heat, frost, or their combinations.

CONSTRUCTION

Phase conductors: Al, class 2 acc. to EN 60228

Neutral conductor: Al alloy, class 2 acc. to HD 626 S1 5D

Insulation: Black weather resistant PE compound, TIP-3

CORE IDENTIFICATION

According to HD 308 S2

Outer Sheath Colour:

● Black

Other colours available on request

TECHNICAL CHARACTERISTICS

Rated voltage (U_0/U): 0,6/1 kV

Test voltage: 4 kV AC 50 Hz, 5 min.

Min. temp. for cable laying: -20°C

Operating ambient temperature: -40°C to +40°C

Maximum conductor operating temperature:
70°C

Max. short-circuit temperature (up to 1s):
135°C

Cable marking: manufacturer name, cable type,
year of production, meter marking

Durability of cable marking: 5 years

Cable service lifetime: 40 years

STANDARD

HD 626 S1, part 5D

CERTIFICATION



Basic cable data	AMKA 1X16+25	AMKA 3X16+25	AMKA 3X25+35	AMKA 3x35+50	AMKA 3X70+95	AMKA 3X120+95
Diameter of phase cond. (mm):	4,4	4,4	5,8	6,8	9,6	12,7
Nominal thickness of insulation (mm):	1,4	1,4	1,4	1,6	1,8	2,0
Diameter of messenger (neutral) cond. (mm):	5,8	5,8	6,8	8,0	11,3	11,3
Construction of messenger (neutral) cond.:	7x2,30	7x2,30	7x2,70	7x3,12	7x4,36	7x4,36
Max. diameter of cable (mm):	15	22	26	30	41	47
Weight of aluminium (kg/km):	100	185	285	390	775	1229
Weight of cable (kg/km):	140	270	390	530	990	1510
Min. permissible bending radius during laying (m):	0,28	0,42	0,50	0,58	0,78	0,92
Min. permissible bending radius at final installation (m):	0,20	0,30	0,35	0,41	0,55	0,45
Min. tensile strength of messenger (kN):	7,4	7,4	10,3	14,2	27,9	27,9
Max. DC resistance of phase conductor at 20°C (Ω/km):	1,91	1,91	1,20	0,868	0,443	0,253
Max. DC resistance of messenger at 20°C (Ω/km):	1,380	1,380	0,986	0,720	0,363	0,363
Phase reactance (Ω/km):	0,087	0,104	0,098	0,094	0,089	0,075
Messenger reactance (Ω/km):	0,067	0,080	0,080	0,080	0,074	0,074
Max. continuous load (A):	75	70	90	115	180	250
Max. permissible short circuit load for phase conductor, 1 s (kA):	1,0	1,0	1,6	2,3	4,5	5,9
Max. permissible short circuit load for messenger, 1 s (kA):	1,5	1,5	2,1	3,0	5,9	5,9
Effective diameter in wind (mm):	11	20	23	27	36	42
Phase windings step (mm):	600- 800	600- 800	600- 800	700- 900	800- 1230	1000- 1410